

Title (en)
PEDAL PROPULSION SYSTEM

Title (de)
PEDALANTRIEBSSYSTEM

Title (fr)
SYSTÈME DE PROPULSION À PÉDALES

Publication
EP 4237321 A1 20230906 (EN)

Application
EP 21810428 A 20211027

Priority
• IT 202000025576 A 20201028
• IB 2021059937 W 20211027

Abstract (en)
[origin: WO2022090964A1] Pedal propulsion system (S) comprising a shaft (11) rotatably associated with a support and integral with a ring gear (12), the shaft having two opposite ends, and in which for each of the opposite ends a first lever (1) having a first end (G) fixed on the corresponding end of the shaft and a second end (F) opposite to the first, a second lever having a first end (E) and a second end (L) opposite to the first to which a pedal (9), in which the first end is slidingly associated with a first guide (5) of longitudinal shape and operationally arranged approximately horizontally, a second guide (4) of oval or circular or quasi-elliptical or elliptical shape, or of any shape closed, also composed of portions of regular shapes, whose horizontal axis is greater than the vertical one, arranged in a plane parallel to the plane of the ring gear (12) so that an axis defined by the first guide (5) is at least secant for the second second guide a view coaxial with the shaft or hub (11), and in which a first intermediate point (6) of the second lever is constrained to follow said second guide, in which a second intermediate point of the second lever, arranged between the first intermediate point (6) and the first end (E) of the second lever, is slidingly associated with the second end (F) of the first lever, the first and second guides being mutually fixed forming a left unit (3) and a right unit (3 bis) arranged in a mutually specular way at the opposite ends of the shaft (11).

IPC 8 full level
B62M 3/04 (2006.01); **B62M 1/26** (2013.01); **B62M 3/06** (2006.01)

CPC (source: EP)
B62M 1/26 (2013.01); **B62M 3/04** (2013.01); **B62M 3/06** (2013.01)

Citation (search report)
See references of WO 2022090964A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022090964 A1 20220505; EP 4237321 A1 20230906; IT 202000025576 A1 20220428

DOCDB simple family (application)
IB 2021059937 W 20211027; EP 21810428 A 20211027; IT 202000025576 A 20201028